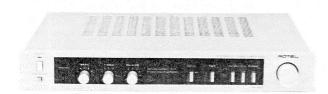


# Technical Manual





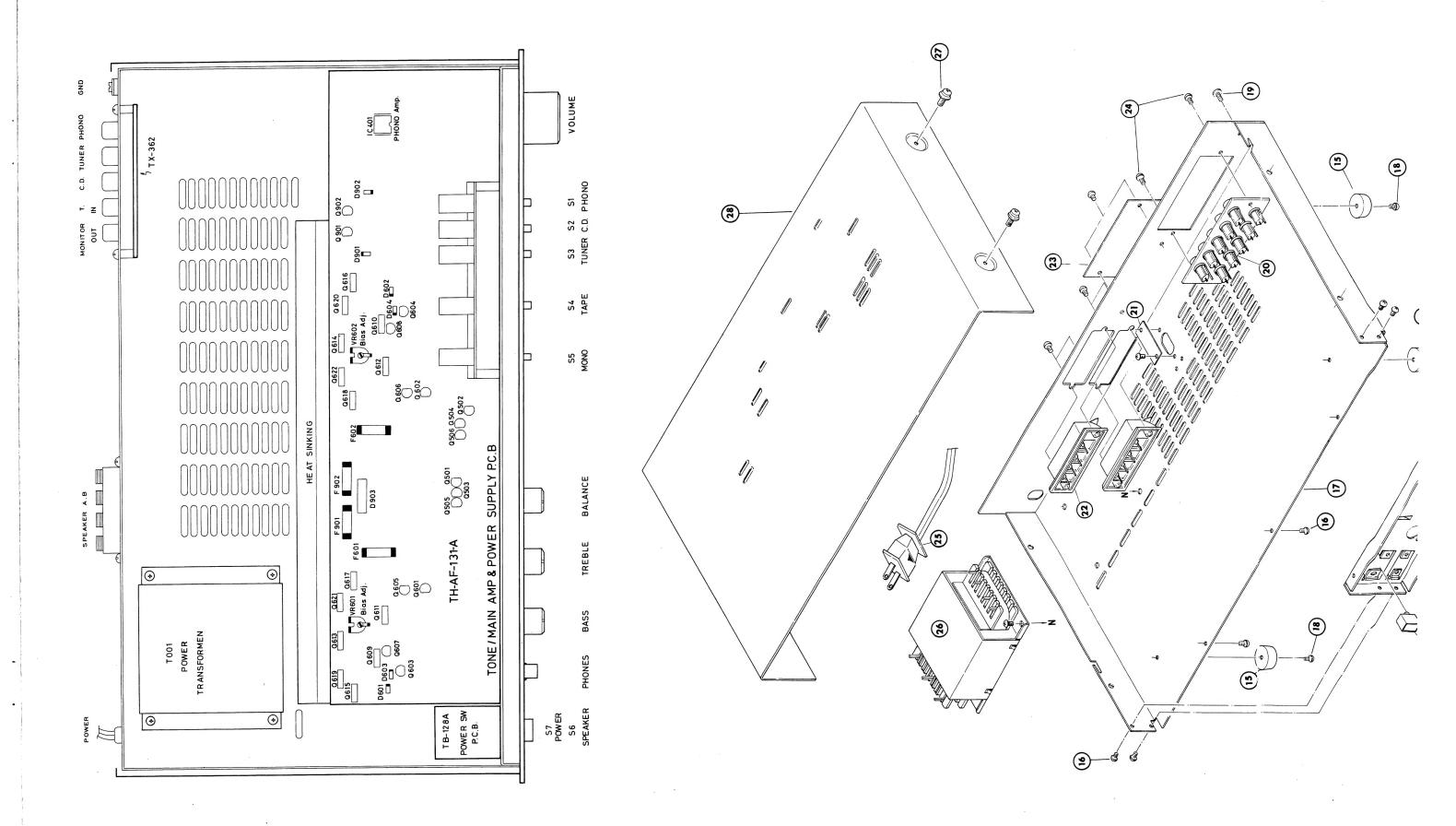
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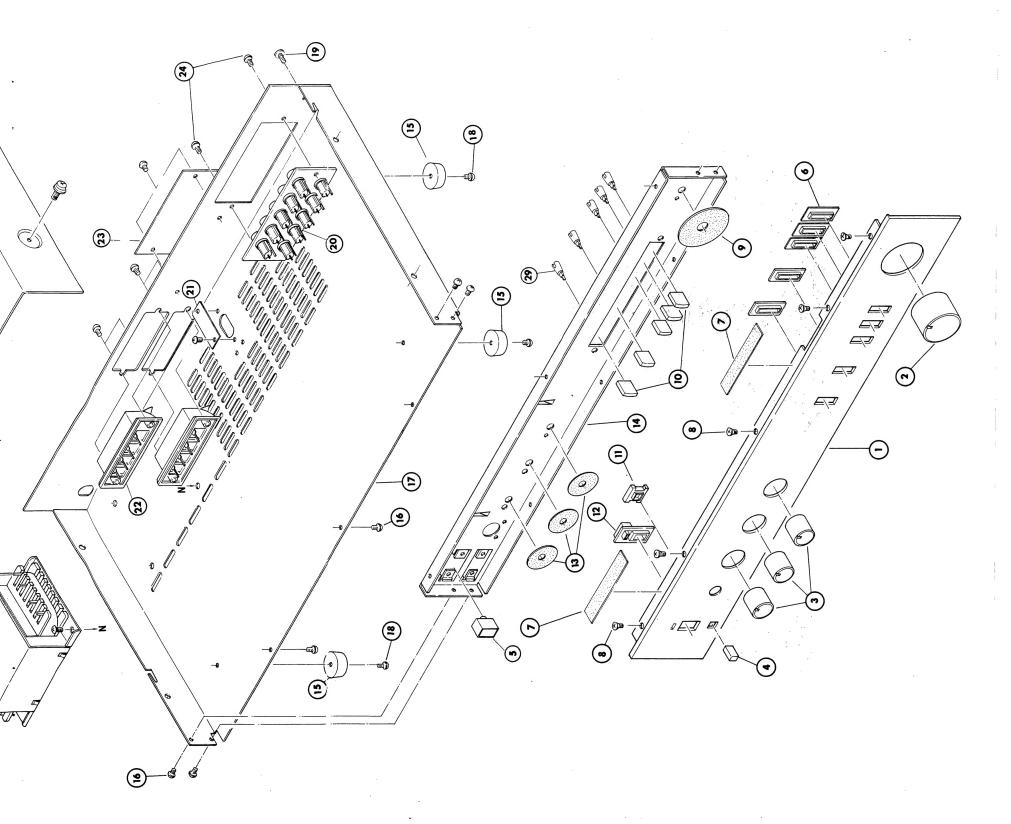
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ΙΝΗΔΙ	TAVE	RZICHMIS	
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THE ROTEL CO., LTD. ROTEL ELECTRONICS CO., LTD. TAÍWAN, REPUBLIC OF CHINA ROTEL HIFILIMITED.

1-36-8. OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN ROTEL BUILDING, 2F, 35, FU HSING N. ROAD, TAIPEI,

2-4 ERICA ROAD, STACEY BUSHES, MILTON KEYNES, BUCKINGHAMSHIRE, ENGLAND





Key No.	Computer No.	Parts No.	Description
1	AA20000269	0102TWB-1#3	Front Panel
2	KB10000420	012C-3871A-T#1	Knob (VOLUME)
3	KB10000456	0124TR-1540A#1	Knob (BASS/TREBLE/BALANCE)
4	KB20000131	012C-3049A#4	Push Button (SPEAKERS)
5	KB20000209	012C-3982	Push Button (POWER)
6	BU00000300	019C-3546-T#1	Push Ring (TUNER/CD/PHONO/
			MONO/TAPE)
7	FE00000080	0194TR-1087	Felt
8	SW12300612	071SA3x6N	Screw, MF 3x6Ni
9	FE00000079	0194TR-1083B#3	Felt
10	KB20000106	012C-3372#1	Push Button (TUNER/CD/PHONO/
			MONO/TAPE)
11	BU00000311	019C-3547-T#1	Push Ring (SPEAKERS)
12	BU00000323	0194TR-1546#1	Push Ring (POWER)
13	FE00000067	0194TR-1083B#1	Felt
14	AF20000106	0132TWB-2C	Front Chassis
15	FT00000035	0194TR-1257A	Plastic Foot
16	SW26300615	071BZTP3x6Z	Screw, TPV 3x6Ni
17	AM00000776	015TRP-320	Chassis Body (TRP-320B)
	AM00000788	015TRP-321	Chassis Body (TRP-321B)
	AM00000790	015TRP-322	Chassis Body (TRP-322B)
18	SW26300810	071BZTP3x8Z	Screw, TPV3x8Ni
19	SW00000136	0714TR-1246#2	G.N.D. Screw, 4x8Ni
20	JP10000060	0624TR-1138B#4	Terminal, 10P, RCA Type
21	SP10000063	0134TR-1147	Mask
22	TP10000088	0623TR-1732#1	Terminal, Push 4P, Speaker A/B
23	NP00000441	015TNP-234	Name Plate (for BEAB)
24	SW16300620	071NB3x6B	Screw, MV3x6BK
25	CD00000036	0724TR-670#1	Line Cord (UL)
	CD00000097	0724TR-670#2	Line Cord (CSA)
	CD00000048	0724TR-815	Line Cord (for Europe)
	CD00000085	072C-2504	Line Cord (for BEAB)
	CD00000115	072C-3763	Line Cord (for Austria)
26	PT00000011	022T-170G	Transformer
	PT00000060	022T-170AF	Transformer (CSA)
27	SW17400610	071NBW4x6N	Screw, MPW4x6Ni
28	AU00000166	0142TWE-5#2	Upper Cover
29	OM00000471	0194TR-1216	Push Button Connector

Schematic Location	Computer No.	Parts No.	Description
TRANSI	STORS, DI	ODES AND IC	C'S
IC401	IC00000718	031NE5532N	NE5532 PHONO Amp.
Q501, 502	TR30000108	033SC1570-EF	2SC1570 (E, F) Flat Tone Amp.
Q503, 504	TR10000023	0332SA1016-EF	2SA1016 (E, F) Flat Tone Amp.
Q505, 506	TR30000108	033SC1570-EF	2SC1570 (E, F) Flat Tone Amp.
Q601, 602	TD4000000		•
605, 606	TR10000023	0332SA1016-EF	2SA1016 (E, F) Differential Amp.
Q603, 604	TR10000023	0332SA1016-EF	2SA1016 (E, F) Constant Current
Q607, 608	TR10000023	0332SA1016-EF	2SA1016 (E, F) Main Amp. Bias Compensator
Q609, 610	TR10000047	0332SB631-DE	2SB631 (D, E) Main Amp Bias
Q611, 612	TR30000169	0332SC1941-E	Compensator
Q613, 614	TR30000110	0332SD600-DE	2SC1941 (E) Pre-Driver 2SD600 (D, E) Idling Driver
Q615, 616	TR30000110	0332SD600-DE	•
Q617, 618	TR10000047	0332SB631-DE	2SD600 (D, E) Driver
Q619, 620	TR40000021	0332SD896-DE	2SB631 (D, E) Driver
Q621, 622	TR20000014	0332SB776-DE	2SD896 (D, E) Power Amp.
Q901	TR30000108	0332SC1570-EF	2SB776 (D, E) Power Amp.
Q902	TR100000108	0332SA1016-EF	2SC1570 (E, F) Stabilizer
D601-604	DD10000100	0341N4148	2SA1016 (E, F) Stabilizer
D901, 902		034WZ-182	1N4148 Bias Compensator
D903	DD10000020	034KBL-02	WZ-182 Zener Regulator KBL-02 Rectifier
D001	DD40000020	034LN224RP	LN224RP Power LED (Red LED)
COILS A	ND VARIA	BLE RESISTO	
VR501	RV10000445	0514TR-1792	50KAx2 Volume Control
VR502	RV10000457	0514TR-1793	100KMN×2 BALANCE Control
	RV10000433		20KBx2 BASS/TREBLE Control
	RV20000338	0518-1401-2K	2KB Bias Adj.
	S AND OT		ZNO Dias Auj.
311110111	S AND O	IILNS	
S1-S5	SH17000018	0614TR-1562	Switch Push 7-Key TUNER CD/PHONO TAPE/MONO
S6	SH11000082	0614TR-1289A	Switch Push 1-Key SPEAKER A+B
<b>S</b> 7	SH40000120	061C-3600B	Power Switch
Γ001	PT00000060	022T-170AF	Power Transformer (120 Only)
	PT00000011	022T-170G	Power Transformer (Multi Type)
901, 902	FU11000050	036L250V3A	Fuse 3A AC Circuit Protector (Long Size)
	FU12000082	036ASG3250V3A	Fuse 3A AC Circuit Protector (Long Size UL)
	FU21000058	036M3.15A	Fuse 3.15A AC Circuit Protector (Mini Size)
	FU23000062	036SF3.15A	Fuse F3.15A AC Circuit Protector (Mini Size "S" "D" Mark)
601, 602	FU11000050	036L250V3A	Fuse 3A Speaker Protector (Long Size)
	FU12000082	036ASG3250V3A	Fuse 3A Speaker Protector (Long Size UL
	FU21000058	036M3.15A	Fuse 3.15A Speaker Protector (Mini Size)
	FU23000062	036SF3.15A	Fuse F3.15A Speaker Protector
			(Mini Size "S" "D" Mark)

Instruments: DC milli-voltmeter

Notes: Prior to Bias Adjustment, run about 5 minutes with rated output (8 ohm) and warm up Power Transistor and

Heat Sink.

Set Volume Control to Minimum.

Step -	Coup	oling	Adjust	Adjust for
Step .	Plus Lead	Minus Lead	Aujust	Adjust 101
1	TP3	TP1	VR601	DC milli-voltmeter
2	TP4	TP2	VR602	reads 4mV

### Endverstärker-Vorspannung-Einstellung

Instruments: DC-Gleichstrom-millivoltmeter

Anmerkung: Vor Einstellung der Vorspannung ist das Graet stwa 5 minuten mit nennleistung unter 8 ohm belastung

zu betreiben, um die Leistung-stransistoren und Kuehlbleche warm werden zu lassen.

Lautstärkerregeler Volumenkontrolle auf Minimum stellen.

Schritt	Anschluss		Abgleich	Abgleich auf	
Sciii		Pruefstift	Minuspol	Abgleich	Abgicion du
1		ТР3	TP1	VR601	DC-Gleichstrom-millivoltmeter
2		TP4	TP2	VR602	auf 4mV einstellen.

## Régtage de la potarisation de l'amplificateur de puissance

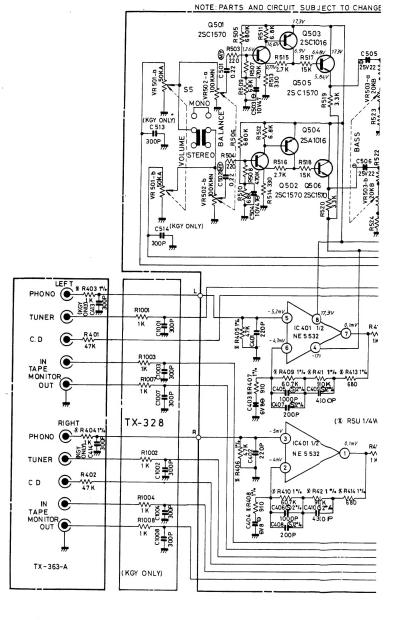
Instrument: DC milli-voltmètre

Note: Avant le réglage de la polarisation, passer à peu près 5 minutes avec une proportion de la sortie du courant (8

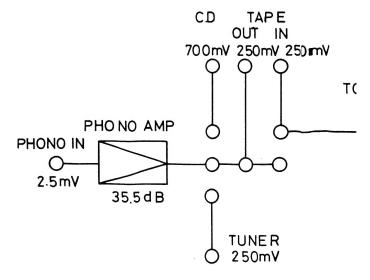
ohm) et rèchauffer le transistor de puissance et le sink.

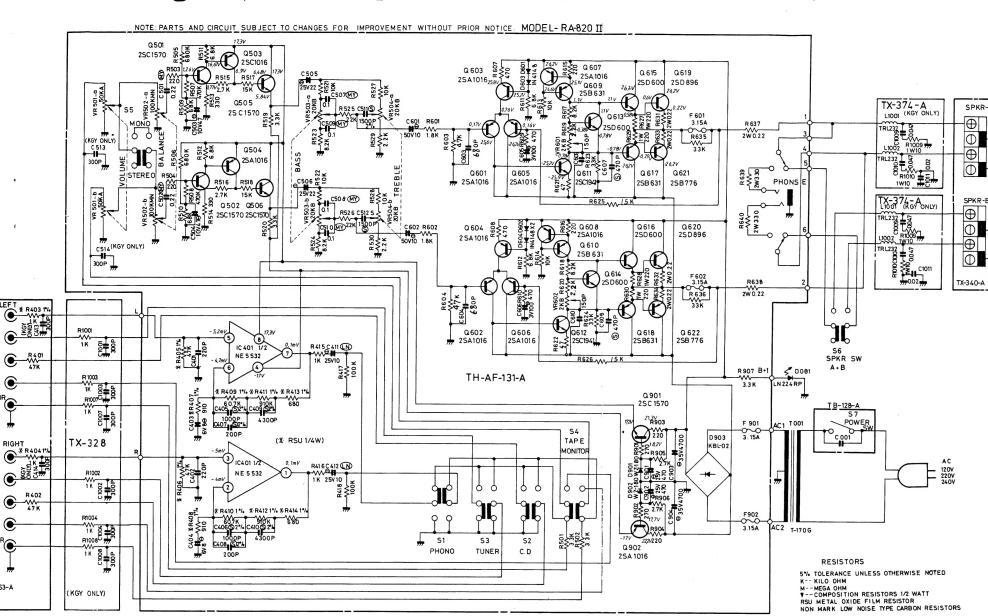
Mettre le contrôle de l'ètendue au minimum.

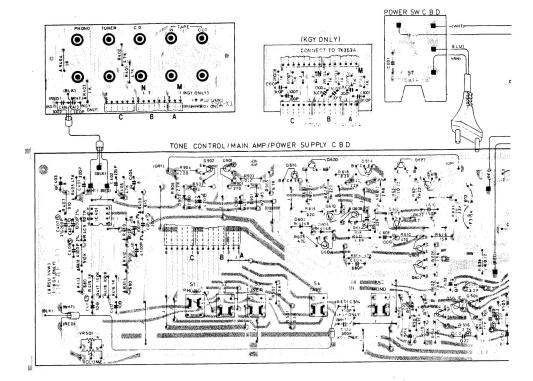
Do:	Coup	olage	Réglage	Réglage pour
Point -	Positif	Moins	neglage	neglage poul
1	TP3	TP1	VR601	DC-millivoltmeter
2	TP4	TP2	VR602	lit 4mV.



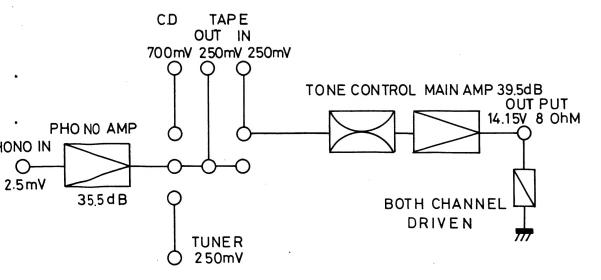
### Gain Diagram/Verstärkun Diagrammede gain







### in Diagram/Verstärkungsdiagramm/ agrammede gain



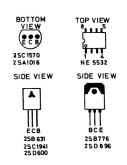
CAPACITORS

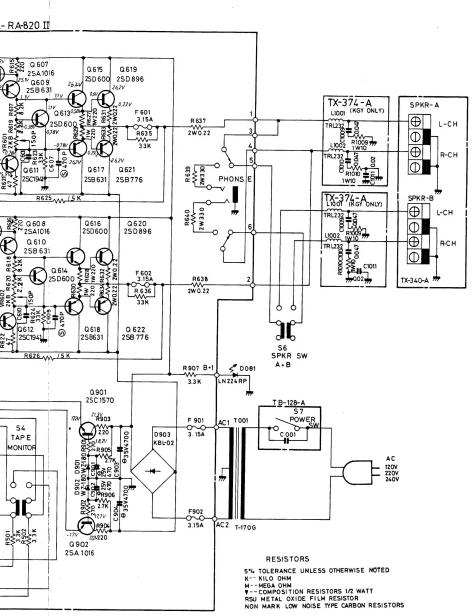
(B)-Low noise electrolytic capacitors

(B)-Mylar film capacitors

(S)--POLYSTYRENE FILM CAPACITORS # -- ELECTROLYTIC CAPACITORS
NON MARK CERAMIC CAPACITORS
UNLESS OTHERWISE NOTED IN SOME MATIC ALL
CAPACITANCE VALUES ARE EXPRESSED IN MFD

	SCHEMATIC		
ITEM	LOCATIO	NLAST	
PHONO AMP	R418	C 412	
TONE CONTROL	R530	C514	
MAIN AMP	R640	C610	
POWER SUPPLY	R 907	C 904	





	SCHEMATIC		
ITEM	LOCATIO	N(AST)	
PHONO AMP	R418	C 412	
TONE CONTROL	R530	C514	
MAIN AMP	R640	C610	
POWER SUPPLY	R 907	C 904	

